

fax: 703 308 0522

**From:** Janjic, Ksenija  
**Sent:** Wed, 13 Jul 2016 16:36:47 +0000  
**To:** Gill, Darren  
**Cc:** McQueen, Jacqueline; Villamizar, Nicole; Carusiello, Chris; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB)  
**Subject:** RE: (b) (6) Tour

Thank you.

Best regards,  
Ksenija

Ksenija Janjic  
Office of Resource Conservation and Recovery  
US Environmental Protection Agency  
Potomac Yards South, S6943  
phone: 703 347 0376  
fax: 703 308 0522

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**From:** (b) (6)  
**Sent:** Wednesday, July 13, 2016 9:00 AM  
**To:** Janjic, Ksenija <Janjic.Ksenija@epa.gov>  
**Cc:** McQueen, Jacqueline <McQueen.Jacqueline@epa.gov>; Villamizar, Nicole <Villamizar.Nicole@epa.gov>; Carusiello, Chris <Carusiello.Chris@epa.gov>; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) <jcx0@cdc.gov>  
**Subject:** RE: (b) (6) Tour

Glad the visit went well.

With respect to your question. The answer is "yes" and "no" ....

Yes – The pile height (height of the fibers), type of Polyethylene fiber (monofilament or slit-film) pile weight (ounces of fibers per square yard), infill weight (lbs of infill per square foot) can indeed change. Additionally, we do offer systems with alternative infill materials.

No – When talking about sports fields, they are all quite similar. Polyethylene fibers, tufted in to a Polypropylene backing material, coated with Polyurethane, and infilled with a mixture of sand / rubber or sometimes an alternative infill system (TPE, EPDM, Organics)

Regards,

(b) (6)

(b) (6)

**From:** Janjic, Ksenija [<mailto:Janjic.Ksenija@epa.gov>]

**Sent:** Wednesday, July 13, 2016 7:26 AM

**To:** (b) (6)

**Cc:** McQueen, Jacqueline <[McQueen.Jacqueline@epa.gov](mailto:McQueen.Jacqueline@epa.gov)>; Villamizar, Nicole <[Villamizar.Nicole@epa.gov](mailto:Villamizar.Nicole@epa.gov)>; Carusiello, Chris <[Carusiello.Chris@epa.gov](mailto:Carusiello.Chris@epa.gov)>; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) <[jcx0@cdc.gov](mailto:jcx0@cdc.gov)>

**Subject:** RE: (b) (6) Tour

Hi (b) (6)

The tour was informative and went well. We observed the storing of the material upfront, the machinery used for infilling and brooming, the infilling of both sand and tire crumb, the brooming to stand up the blades, and (b) (6) explained the line inlaying, as well. Thank you for organizing the tour, and a thank you to (b) (6) for hosting it.

The one item we took back for follow-up is that there could be differences in the product specs depending on the type of sport that is played (e.g., specs for a football field might not be the same as the specs for a field-hockey field). Would one type of a field be more likely to involve a specific product system?

Thank you again, and best regards,  
Ksenija

Ksenija Janjic  
Office of Resource Conservation and Recovery  
US Environmental Protection Agency  
Potomac Yards South, S6943  
phone: 703 347 0376  
fax: 703 308 0522

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**From:** (b) (6)

**Sent:** Tuesday, July 12, 2016 2:17 PM

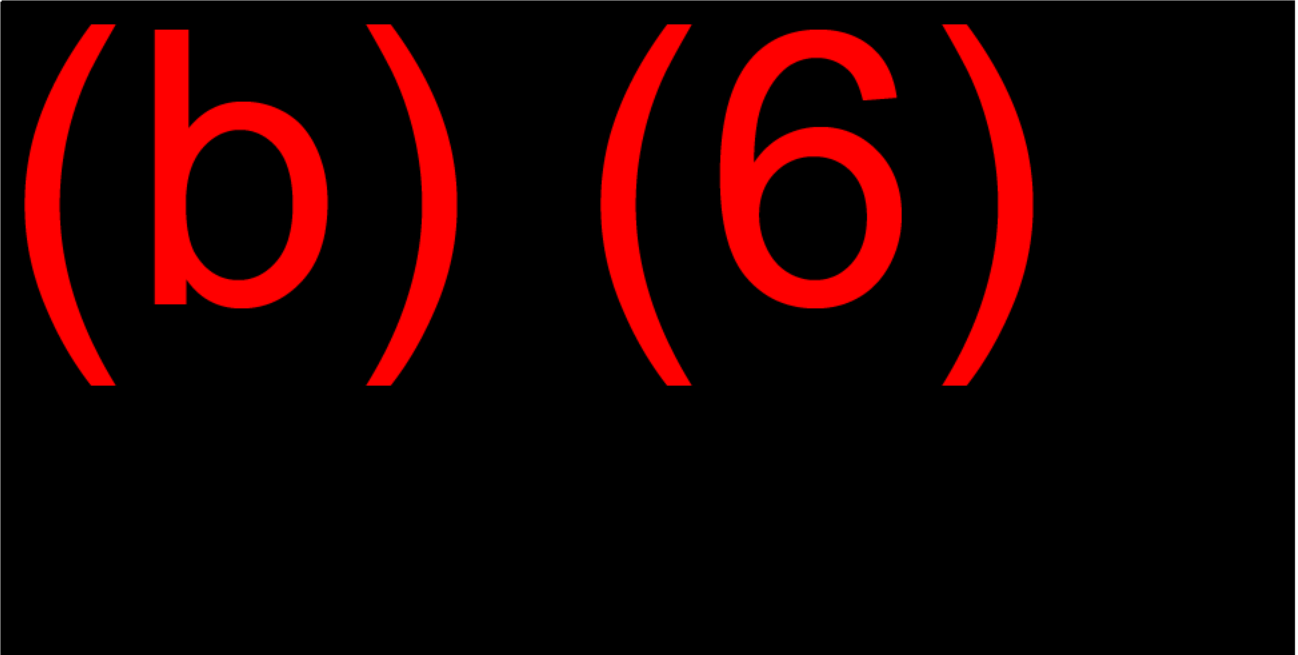
**To:** Janjic, Ksenija <[Janjic.Ksenija@epa.gov](mailto:Janjic.Ksenija@epa.gov)>

**Cc:** McQueen, Jacqueline <[McQueen.Jacqueline@epa.gov](mailto:McQueen.Jacqueline@epa.gov)>; Villamizar, Nicole <[Villamizar.Nicole@epa.gov](mailto:Villamizar.Nicole@epa.gov)>; Carusiello, Chris <[Carusiello.Chris@epa.gov](mailto:Carusiello.Chris@epa.gov)>; Irvin-Barnwell, Elizabeth

(ATSDR/DTHHS/EEB) <jcx0@cdc.gov>

Subject: RE: (b) (6) Tour

How did the tour go?



From: Janjic, Ksenija [mailto:Janjic.Ksenija@epa.gov]

Sent: Friday, July 1, 2016 8:54 AM

To: (b) (6)

Cc: McQueen, Jacqueline <McQueen.Jacqueline@epa.gov>; Villamizar, Nicole <Villamizar.Nicole@epa.gov>; Carusiello, Chris <Carusiello.Chris@epa.gov>; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) <jcx0@cdc.gov>

Subject: (b) (6) Tour

Hi Darren,

I have not heard back from (b) (6) so I wanted to check in with you around a few details:

- Is the field installation on the (b) (6) campus? (We were assuming that the (b) (6) campus was in Fairfax, since that is the location google maps went to when we searched for (b) (6). However, just this moment, in searching for a "map of (b) (6)", I found out there were 4 different locations. Can we confirm where the installation is?)
- Can we also confirm which field the installation is on? (In looking at the (b) (6) campus, there is a number of fields and stadiums, where should we go?)
- Are there any requirements regarding where we should park?
- Are there any other practical requirements, e.g., closed-toe shoes, or anything regarding safety we should be aware of?
- Can you give us a phone number we can use to reach (b) (6) once we are there?



Thank you so much for any information you can provide. (One more thing, I know you do anyway, but this time too, can you please CC everyone on your response to make sure others have the information on time - I am not going to be in the office on Monday or Tuesday of next week, and the tour is on Wednesday already.)

Thank you so much and best regards,  
Ksenija

Ksenija Janjic  
Office of Resource Conservation and Recovery  
US Environmental Protection Agency  
Potomac Yards South, S6943  
phone: 703 347 0376  
fax: 703 308 0522

**From:** Guiseppi-Elie, Annette  
**Sent:** Wed, 1 Jun 2016 21:03:15 +0000  
**To:** Carusiello, Chris; Villamizar, Nicole; Janjic, Ksenija; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB); Ragin, Angela (ATSDR/DTHHS/EEB)  
**Cc:** McQueen, Jacqueline  
**Subject:** RE: (b) (6) Travel Logistics

Thanks Chris.

I expect to arrive late on Thursday evening (AA (b) (6) from CLT ETA 11:40 pm) and will plan to car pool with the group. I will be staying at the Marriott at the airport.  
My mobile is (b) (6)

Thanks for leading on this.

Best, Annette.

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Annette Guiseppi-Elie, Ph.D., FAIMBE  
Associate Director for Exposure Science  
NERL USEPA/ORD  
Telephone: 919.541.4986  
Mobile: (b) (6)  
Email: guiseppi-elie.annette@epa.gov

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**From:** Carusiello, Chris  
**Sent:** Wednesday, June 01, 2016 4:21 PM  
**To:** Villamizar, Nicole <Villamizar.Nicole@epa.gov>; Janjic, Ksenija <Janjic.Ksenija@epa.gov>; Guiseppi-Elie, Annette <Guiseppi-Elie.Annette@epa.gov>; jcx0@cdc.gov; atr0@cdc.gov  
**Cc:** McQueen, Jacqueline <McQueen.Jacqueline@epa.gov>  
**Subject:** (b) (6) Travel Logistics

Hi all,

Just wanted to send a heads up on our travel plans here at the EPA. We're planning on renting a vehicle from the (b) (6) airport Friday morning and carpooling to the (b) (6) facility. We'll then be heading back to the airport to catch the United (b) (6) flight departing at 4:05pm. Let us know if you'd like to join in this plan or we can meet up at (b) (6)

Also, please find attached a draft itinerary with our phone numbers attached. If you'd like to add your numbers that would be great.

Thanks,  
Chris

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Chris Carusiello  
U.S. EPA Office of Resource Conservation & Recovery  
Tel (703) 308-8757  
[Carusiello.Chris@epa.gov](mailto:Carusiello.Chris@epa.gov) | [@EPAland](#)

**From:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB)  
**Sent:** Thu, 25 Aug 2016 12:29:23 +0000  
**To:** Thomas, Kent  
**Cc:** Guiseppi-Elie, Annette  
**Subject:** RE: Emailing - USEPA and Agency for Toxic Substances and Disease Registry Forms.pdf  
**Attachments:** RE: Tire Crumb Research Study Samples, Tire Crumb Research Study Samples

(b)(6)

I have also attached emails with both the signed agreement form and additional contact info.  
Thanks,  
Elizabeth

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**From:** Thomas, Kent [mailto:thomas.kent@epa.gov]  
**Sent:** Thursday, August 25, 2016 8:27 AM  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) <jcx0@cdc.gov>; Guiseppi-Elie, Annette <Guiseppi-Elie.Annette@epa.gov>  
**Subject:** RE: Emailing - USEPA and Agency for Toxic Substances and Disease Registry Forms.pdf  
**Importance:** High

Can you provide a phone number for (b) (6) ? Needed today by noon to prepare shipping labels to get the kit into shipment tomorrow for Monday delivery.

Kent

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**From:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) [mailto:jcx0@cdc.gov]  
**Sent:** Wednesday, August 24, 2016 3:25 PM  
**To:** Guiseppi-Elie, Annette (b)(6)  
**Cc:** Thomas, Kent <(b)(6)> Ragin, Angela (ATSDR/DTHHS/EEB) <atr0@cdc.gov>  
**Subject:** RE: Emailing - USEPA and Agency for Toxic Substances and Disease Registry Forms.pdf

OK, thanks. Also, as an FYI, Kelsey has reached out to the POC at (b)(3):42 but he has not called her back.

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**From:** Guiseppi-Elie, Annette [mailto:Guiseppi-Elie.Annette@epa.gov]  
**Sent:** Wednesday, August 24, 2016 3:05 PM  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) <jcx0@cdc.gov>  
**Cc:** Thomas, Kent <thomas.kent@epa.gov>; Ragin, Angela (ATSDR/DTHHS/EEB) <atr0@cdc.gov>  
**Subject:** RE: Emailing - USEPA and Agency for Toxic Substances and Disease Registry Forms.pdf

Only FYI Elizabeth – keeping you posted and providing documentation for your files.

(b) (6) now signed. I am waiting on a new contact for (b) (6)

Best, Annette.

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**From:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) [<mailto:jcx0@cdc.gov>]  
**Sent:** Wednesday, August 24, 2016 1:47 PM  
**To:** Guiseppi-Elie, Annette <(b)(6)>  
**Cc:** Thomas, Kent <(b)(6)> Ragin, Angela (ATSDR/DTHHS/EEB) <[atr0@cdc.gov](mailto:atr0@cdc.gov)>  
**Subject:** RE: Emailing - USEPA and Agency for Toxic Substances and Disease Registry Forms.pdf

Annette,

Thank you for the update. Currently, ATSDR is not on the schedule to collect (b)(3):42 U.S.C. §242m(d) (b)(3):42 U.S.C. §242m(d). Has there been a change?

Thanks,  
Elizabeth

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**From:** Guiseppi-Elie, Annette [<mailto:Guiseppi-Elie.Annette@epa.gov>]  
**Sent:** Wednesday, August 24, 2016 12:55 PM  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) <[jcx0@cdc.gov](mailto:jcx0@cdc.gov)>  
**Subject:** Emailing - USEPA and Agency for Toxic Substances and Disease Registry Forms.pdf

**FYI Elizabeth**

I will arrange with (b) (6) to collect the samples from their (b) (6) facility during either the week of 9/12 or 9/19.

Best, Annette.



**From:** Guiseppi-Elie, Annette  
**Sent:** Thu, 18 Aug 2016 17:43:00 +0000  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB)  
**Subject:** RE: Tire Crumb Research Study Samples

Elizabeth,

I did not since I thought that you might want to make those arrangements yourself.

I did suggest that the week of August 29 might be a good time. The plant is open and (b) (6) is available at (b) (6) if you want to confirm.

Hope the activities today went well and you are finished.

Best, Annette.

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Annette Guiseppi-Elie, Ph.D., FAIMBE  
Associate Director for Exposure Science  
NERL USEPA/ORD  
Telephone: 919.541.4986  
Mobile: (b) (6)  
Email: guiseppi-elie.annette@epa.gov

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**From:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) [mailto:jcx0@cdc.gov]  
**Sent:** Thursday, August 18, 2016 1:09 PM  
**To:** Guiseppi-Elie, Annette <(b)(6)>  
**Subject:** Re: Tire Crumb Research Study Samples

Annette,

(b)(5)

Thanks,  
Elizabeth

On Aug 18, 2016, at 1:08 PM, Guiseppi-Elie, Annette <[Guiseppi-Elie.Annette@epa.gov](mailto:Guiseppi-Elie.Annette@epa.gov)> wrote:

Elizabeth,

Attached is the signed form from (b) (6)

Thanks, Annette.

<TireRecyclingFacil Sample Collectn Agrmnt Form\_Final\_Fillable.pdf>

**From:** Guiseppi-Elie, Annette  
**Sent:** Thu, 18 Aug 2016 17:04:42 +0000  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB)  
**Subject:** Tire Crumb Research Study Samples  
**Attachments:** TireRecyclingFacil Sample Collectn Agrmnt Form\_Final\_Fillable.pdf

Elizabeth,

Attached is the signed form from (b) (6)

Thanks, Annette.

## **COLLECTION AGREEMENT**

### **United States Environmental Protection Agency and the Agency for Toxic Substances and Disease Registry**

#### **Collections Related to Synthetic Turf Fields with Crumb Rubber Infill**

##### **Overview**

The Agency for Toxic Substances and Disease Registry (ATSDR) and the United States Environmental Protection Agency (USEPA) invite you to be in a project to measure the amount of chemicals in crumb rubber infill used in synthetic turf fields.

You are being asked to participate in this project. Your participation is voluntary. After you read about the project and before you decide to participate, please ask questions if there is anything that you do not understand.

##### **What is the purpose of this project?**

The purpose is to see what chemicals are present in newly manufactured tire crumb rubber infill used in synthetic turf fields.

We will use the results of this project to better understand the most relevant chemicals, exposures to those chemicals, and toxicity information available for those chemicals found in crumb rubber infill used in synthetic turf fields

##### **Why are you being asked to be in this project?**

You were chosen to participate in this research project because your facility was identified as manufacturing tire crumb rubber used as infill in synthetic turf fields and you completed a survey that indicated you willing to participate. ATSDR and EPA hope to get 9 facilities to participate.

##### **What are we asking you to do?**

- We will ask you to provide permission for us to collect samples of the crumb rubber manufactured at your facility. We need samples from three different production batches and/or storage containers from your facility. We will collect about four pounds of crumb rubber from each batch or container.

##### **How long will this take?**

It will take us about 90 minutes for us to collect the samples.

##### **What will the field samples be tested for?**

We will look for chemicals in the crumb rubber, including

- Metals
- Volatile Organic Compounds
- Semi-Volatile Organic Compounds

We will also characterize particle sizes in the collected material.

We would like your permission for us to store the leftover samples to possibly test for other chemicals in the future.

**Are there any risks or benefits to you from being in this project?**

The facility owners will not incur any costs for the laboratory tests performed by the federal government. Tire recycling facilities will have the option to request a copy of the laboratory results from the crumb rubber samples collected.

**Who will see the information you give the researchers?**

All information about your facility will be secure. We keep track of your information using a code number rather than the facility name. We will keep paper records in locked files and electronic records are stored on password protected computers at the USEPA. Only staff working on the project will be allowed to look at the paper and electronic records. Federal policy requires making the data we collect available to the public, but we will not include your name or other identifying information in public release. However, identifying information may be released in the event of a Freedom of Information Act request.

**What is the cost to you?**

The only cost to you for being in our project is your time to take part and the crumb rubber we will need for testing. We will be collecting about twelve pounds of crumb rubber; however, the collection will occur from three different lots or storage containers (about four pounds per lot or container).

**What are your choices about participating?**

Your participation in this project is voluntary. You are free to be a part of it or not.

**Who should you contact if you have questions later on?**

If you have any question about the project or wish to drop out, please contact:

Elizabeth Irvin-Barnwell, ATSDR Project Officer  
[Jcx0@cdc.gov](mailto:Jcx0@cdc.gov)  
770-488-3684

**What should you do after reading this information?**

If you do not understand what we are asking you to do, please ask questions. After all your questions have been answered to your satisfaction and if you want to be in this project, please sign the consent form on the next page.

United States Environmental Protection Agency and the Agency for Toxic Substances and Disease Registry

Collections Related to Synthetic Turf Fields with Crumb Rubber Infill

Sample Collection Agreement

I have read the above information about the project "*Collections Related to Synthetic Turf Fields with Crumb Rubber Infill.*" I have been allowed to ask questions and I had all my questions answered.

By signing below, I agree to allow USEPA and ATSDR to collect crumb rubber samples from my manufacturing facility.

(b) (6)

Participant's name (Print)

(b) (6)

Participant's signature / Date

(b) (6)

Organization/Facility Name

Participant Position/Title

By signing below, I give USEPA and ATSDR permission to store my leftover field samples to test for other contaminants at a later date.

(b) (6)

Participant's name (Print)

(b) (6)

Participant's signature / Date



By signing below, I am indicating I would like to receive a copy of the laboratory results from the crumb rubber samples collected from my facility.

(b) (6)

Participant's name (Print)

(b) (6)

Participant's signature / Date

(b) (6)

Mailing Address for results

Site ID Number	Collection Date	Field Staff Id
<input type="text"/>	<input type="text"/>	<input type="text"/>

**From:** Guiseppi-Elie, Annette  
**Sent:** Wed, 24 Aug 2016 19:04:32 +0000  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB)  
**Cc:** Thomas, Kent; Ragin, Angela (ATSDR/DTHHS/EEB)  
**Subject:** RE: Emailing - USEPA and Agency for Toxic Substances and Disease Registry Forms.pdf

Only FYI Elizabeth – keeping you posted and providing documentation for your files.

(b) (6) now signed. I am waiting on a new contact for (b) (6)

Best, Annette.

---

**From:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) [mailto:jcx0@cdc.gov]  
**Sent:** Wednesday, August 24, 2016 1:47 PM  
**To:** Guiseppi-Elie, Annette (b)(6)  
**Cc:** Thomas, Kent <(b)(6)> Ragin, Angela (ATSDR/DTHHS/EEB) <atr0@cdc.gov>  
**Subject:** RE: Emailing - USEPA and Agency for Toxic Substances and Disease Registry Forms.pdf

Annette,

Thank you for the update. Currently, ATSDR is not on the schedule to collect (b)(3):42 U.S.C.

(b)(3):42 U.S.C. Has there been a change?

Thanks,  
Elizabeth

---

**From:** Guiseppi-Elie, Annette [mailto:Guiseppi-Elie.Annette@epa.gov]  
**Sent:** Wednesday, August 24, 2016 12:55 PM  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) <jcx0@cdc.gov>  
**Subject:** Emailing - USEPA and Agency for Toxic Substances and Disease Registry Forms.pdf

FYI Elizabeth

I will arrange with (b) (6) to collect the samples from their (b) (6) facility during either the week of 9/12 or 9/19.

Best, Annette.

**From:** Thomas, Kent  
**Sent:** Wed, 24 Aug 2016 18:08:46 +0000  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB); Guiseppi-Elie, Annette  
**Cc:** Ragin, Angela (ATSDR/DTHHS/EEB)  
**Subject:** RE: Emailing - USEPA and Agency for Toxic Substances and Disease Registry Forms.pdf

Right now, we have the (b) (6) plant as one that our contractor would sample. However, I need to speak with Annette about issues with the contract – and about whether our contractor will be able to do this.

More headaches - aaargh.

Kent

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**From:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) [mailto:jcx0@cdc.gov]  
**Sent:** Wednesday, August 24, 2016 1:47 PM  
**To:** Guiseppi-Elie, Annette <(b)(6)>  
**Cc:** Thomas, Kent <(b)(6)> Ragin, Angela (ATSDR/DTHHS/EEB) <atr0@cdc.gov>  
**Subject:** RE: Emailing - USEPA and Agency for Toxic Substances and Disease Registry Forms.pdf

Annette,

Thank you for the update. Currently, ATSDR is not on the schedule to collect (b)(3):42 U.S.C. (b)(3):42 U.S.C. §242m(d) Has there been a change?

Thanks,  
Elizabeth

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**From:** Guiseppi-Elie, Annette [mailto:Guiseppi-Elie.Annette@epa.gov]  
**Sent:** Wednesday, August 24, 2016 12:55 PM  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) <jcx0@cdc.gov>  
**Subject:** Emailing - USEPA and Agency for Toxic Substances and Disease Registry Forms.pdf

FYI Elizabeth

I will arrange with (b) (6) to collect the samples from their (b) (6) facility during either the week of 9/12 or 9/19.

Best, Annette.

**From:** Thomas, Kent  
**Sent:** Fri, 23 Sep 2016 17:54:58 +0000  
**To:** McQueen, Jacqueline; Ragin, Angela (ATSDR/DTHHS/EEB); Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB)  
**Cc:** Guiseppi-Elie, Annette  
**Subject:** RE: (b) (6) crumb samples

Thanks, Jackie. I am a bit confused though. Our ATSDR colleagues got a firm and solid 'no' when they contacted this (b) (6) plant.

It does turn out that, unfortunately, we will need to recruit a couple more plants because we did not get permission from one company to use samples we have in the freezer.

Kent

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**From:** McQueen, Jacqueline  
**Sent:** Friday, September 23, 2016 1:42 PM  
**To:** Ragin, Angela (ATSDR/DTHHS/EEB) <atr0@cdc.gov>; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) <jcx0@cdc.gov>  
**Cc:** Thomas, Kent <thomas.kent@epa.gov>; Guiseppi-Elie, Annette <Guiseppi-Elie.Annette@epa.gov>  
**Subject:** (b) (6) crumb samples

I realize this information is late in coming, but you asked about additional cryogenic samples. I spoke with Mary Sikora, my contact at the Scrap Tire New, who has been helpful before. It took her a week to get back to me, but here is what she found:

(b) (6) is willing to have sample takers visit his facility to gather fresh sample of (b) (6) produced crumb rubber.

(b) (6) can be reached at (b) (6). He has my name, and he's awaiting a call.

(b) (6) plans to call me, but I am happy to let one of you follow up if you want. His company uses (b) (6) processing to produce crumb rubber.

If you decide not to follow up on either, let me know so I can get back to them, thank them anyway, and close the loop. If you want me to do anything else with these 2 contacts, let me know.

- Mary is willing to work with us and her contacts to find facilities to do further sampling/testing if you want. Let me know.

**From:** McQueen, Jacqueline  
**Sent:** Mon, 12 Sep 2016 13:53:54 +0000  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB)  
**Cc:** Ragin, Angela (ATSDR/DTHHS/EEB)  
**Subject:** RE: contact for plant visit

That's what we heard, but when I saw the info. on the web, I thought it was worth asking. I will keep looking.

Jackie

---

**From:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) [mailto:jcx0@cdc.gov]  
**Sent:** Monday, September 12, 2016 9:50 AM  
**To:** McQueen, Jacqueline <(b)(6)>  
**Cc:** Ragin, Angela (ATSDR/DTHHS/EEB) <atr0@cdc.gov>  
**Subject:** RE: contact for plant visit

Jackie,  
Thank you for the follow-up. Yes, I did speak with (b)(3):4. According to the POC, they only use the (b)(6) process in their U.S. facilities.  
Thanks,  
Elizabeth

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**From:** McQueen, Jacqueline [mailto:McQueen.Jacqueline@epa.gov]  
**Sent:** Monday, September 12, 2016 9:48 AM  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) <jcx0@cdc.gov>  
**Subject:** FW: contact for plant visit

Good morning, Elizabeth,

I don't know if you have contacted (b)(6) yet or not, but you might ask if they use the (b)(6) process as well as the (b)(6) method to manufacture tire crumb. We are trying to find other (b)(6) but so far, we haven't identified any. In the meantime, I saw on the web that (b)(6) can process tires (b)(6). So you could ask them directly during your discussions.

Jackie

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**From:** McQueen, Jacqueline  
**Sent:** Thursday, August 25, 2016 4:16 PM  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) <jcx0@cdc.gov>  
**Subject:** Fw: contact for plant visit

I left the e:mail history so you can let (b)(6) know how you got his information. Hopefully, he will remember his discussion with Mary Sikora, who works at the Scrap Tire News.



Jackie

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**From:** Mary Sikora <[mary\\_s@ix.netcom.com](mailto:mary_s@ix.netcom.com)>

**Sent:** Friday, May 13, 2016 11:52 AM

**To:** McQueen, Jacqueline

**Subject:** Re: contact for plant visit

Jackie,

The (b) (6) is one that will let you collect samples. i spoke to (b) (6) about sample when I contacted him.

Have a good (maybe...hopefully sunny) weekend.

Mary

On May 13, 2016, at 11:11 AM, McQueen, Jacqueline wrote:

> Mary

>

> It was a pleasure meeting you as well. Thank you for all of your

> help! I will pass this along to Ksenija, who is handling our tours.

> Next on our list of "to do" items is to find facilities that are

> willing to let us collect a small amount of samples. This will

> occur, hopefully, in early June.

>

> I will be in touch, and feel free to contact me anytime.

>

> Jackie McQueen

>

>

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> From: Mary Sikora <[mary\\_s@ix.netcom.com](mailto:mary_s@ix.netcom.com)>

> Sent: Friday, May 13, 2016 11:00 AM

> To: McQueen, Jacqueline

> Subject: contact for plant visit

>

> Jackie,

>

> What a pleasure to meet you and the rest of the team. I think

> everyone came away with a new picture of how tires are handled,

> downsized and recycled.

>

> I want to pass on a contact for the (b) (6) Recycling plant in

> (b) (6) They do make crumb rubber in the infill size as well as

> crumb rubber for other markets. It's a very good plant and they

> welcome a visit.

>

> You should contact:

>

> (b) (6)

> I spoke to (b) (6) yesterday and he is aware that you will be calling or  
> contacting him by e-mail.

> (b) (6) is a long time colleague and extremely knowledgeable about  
> tires. I know he will set up an excellent tour for you.

> All the best,

> Mary

**From:** Thomas, Kent  
**Sent:** Fri, 30 Sep 2016 13:27:18 +0000  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB); Korajkic, Asja; McMinn, Brian  
**Subject:** POC info for (b) (6) recycling plant

Hi everyone:

I am checking in to see if anyone has obtained the POC information we need for shipping sampling kits to the (b) (6) recycling plants (name, telephone number, UPS shipping address).

If not, I will need to contact (b) (6) today. We need to get the shipping labels prepared and the boxes shipped on Monday.

Thanks,  
Kent

**From:** Janjic, Ksenija  
**Sent:** Fri, 2 Sep 2016 14:38:35 +0000  
**To:** Hauchman, Fred; McQueen, Jacqueline; Guiseppi-Elie, Annette; Thomas, Kent; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB); Ragin, Angela (ATSDR/DTHHS/EEB)  
**Cc:** Villamizar, Nicole; Carusiello, Chris; Coleman, Cheryl; Cochran, Kimberly  
**Subject:** OLEM's briefing on outreach effort and findings to date

Dear all,

I am trying to send out an invitation for next Thursday, Sept 8, or Friday, Sept 9, for a briefing on OLEM's FRAP-related outreach efforts. Unfortunately, I can't see all of your calendars and can't tell if any of the blocked slots are for meetings that can potentially be moved. With my limited ability to view your calendars, it seems that Thursday, 11-12 could work, if in a few cases, some adjustments are possible. Otherwise, Friday 9-12 appears open for all.

To better gauge your availability and preferences, I have set up a doodle poll that includes those times. You can access it at, <http://doodle.com/poll/8zd9942yaztdau3>.

Just so we don't lose a spot that is currently available for you, a quick response would be very much appreciated.

Thank you and best regards,  
Ksenija

Ksenija Janjic  
Office of Resource Conservation and Recovery  
US Environmental Protection Agency  
Potomac Yards South, S6943  
phone: 703 347 0376  
fax: 703 308 0522

**From:** Janjic, Ksenija  
**Sent:** Fri, 1 Jul 2016 12:53:35 +0000  
**To:** (b) (6)  
**Cc:** McQueen, Jacqueline; Villamizar, Nicole; Carusiello, Chris; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB)  
**Subject:** (b) (6) Tour

Hi (b) (6)

I have not heard back from (b) (6) so I wanted to check in with you around a few details:

- Is the field installation on the (b) (6) campus? (We were assuming that the (b) (6) campus was in (b) (6) since that is the location google maps went to when we searched for (b) (6). However, just this moment, in searching for a "map of (b) (6)", I found out there were 4 different locations. Can we confirm where the installation is?)
- Can we also confirm which field the installation is on? (In looking at the (b) (6) campus, there is a number of fields and stadiums, where should we go?)
- Are there any requirements regarding where we should park?
- Are there any other practical requirements, e.g., closed-toe shoes, or anything regarding safety we should be aware of?
- Can you give us a phone number we can use to reach (b) (6) once we are there?

Thank you so much for any information you can provide. (One more thing, I know you do anyway, but this time too, can you please CC everyone on your response to make sure others have the information on time - I am not going to be in the office on Monday or Tuesday of next week, and the tour is on Wednesday already.)

Thank you so much and best regards,  
Ksenija

Ksenija Janjic  
Office of Resource Conservation and Recovery  
US Environmental Protection Agency  
Potomac Yards South, S6943  
phone: 703 347 0376  
fax: 703 308 0522



**From:** Carusiello, Chris  
**Sent:** Wed, 1 Jun 2016 20:20:43 +0000  
**To:** Villamizar, Nicole; Janjic, Ksenija; Guiseppi-Elie, Annette; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB); Ragin, Angela (ATSDR/DTHHS/EEB)  
**Cc:** McQueen, Jacqueline  
**Subject:** (b) (6) Travel Logistics  
**Attachments:** Draft Itinerary (b) (6) docx

Hi all,

Just wanted to send a heads up on our travel plans here at the EPA. We're planning on renting a vehicle from the (b) (6) airport Friday morning and carpooling to the (b) (6) facility. We'll then be heading back to the airport to catch the United (b) (6) flight departing at 4:05pm. Let us know if you'd like to join in this plan or we can meet up at (b) (6)

Also, please find attached a draft itinerary with our phone numbers attached. If you'd like to add your numbers that would be great.

Thanks,  
Chris

---

Chris Carusiello  
U.S. EPA Office of Resource Conservation & Recovery  
Tel (703) 308-8757  
[Carusiello.Chris@epa.gov](mailto:Carusiello.Chris@epa.gov) | [@EPAland](https://twitter.com/EPAland)

(b) (5), (b) (6)



**From:** Guiseppi-Elie, Annette  
**Sent:** Thu, 4 Aug 2016 19:42:58 +0000  
**To:** Ragin, Angela (ATSDR/DTHHS/EEB); Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB)  
**Cc:** Thomas, Kent  
**Subject:** FW: Update on contacting recycling plants-- with contact information

FYI

---

**From:** Carusiello, Chris  
**Sent:** Thursday, August 04, 2016 1:27 PM  
**To:** Villamizar, Nicole <Villamizar.Nicole@epa.gov>  
**Cc:** Guiseppi-Elie, Annette <Guiseppi-Elie.Annette@epa.gov>; Thomas, Kent <thomas.kent@epa.gov>; Janjic, Ksenija <Janjic.Ksenija@epa.gov>  
**Subject:** RE: Update on contacting recycling plants-- with contact information

**DELIBERATIVE**

Update on contacting the recycling plant points of contacts

(b) (6), (b) (5)



(b) (6), (b) (5)

---

Chris Carusiello  
U.S. EPA Office of Resource Conservation & Recovery  
[Industrial Materials Reuse Branch](#)  
Tel (703) 308-8757  
[Carusiello.Chris@epa.gov](mailto:Carusiello.Chris@epa.gov) | [@EPAland](#)

**From:** Guiseppi-Elie, Annette  
**Sent:** Thu, 22 Sep 2016 15:03:34 +0000  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB); Ragin, Angela (ATSDR/DTHHS/EEB); Thomas, Kent  
**Subject:** FW: Tire Crumb Research Study Samples

---

**From:** (b) (6)  
**Sent:** Wednesday, September 21, 2016 7:39 PM  
**To:** Guiseppi-Elie, Annette <Guiseppi-Elie.Annette@epa.gov>  
**Subject:** RE: Tire Crumb Research Study Samples

Dear Annette,

While I am pleased to see the EPA move ahead on an issue of public concern, I am concerned that the final testing protocol recently released by your office apparently does not control for ambient sources of possible contamination by sampling natural grass or dirt adjacent to fields with recycled rubber infill. I believe that without such controls, the reliability of the data and its ability to support safety conclusions is questionable, defeating the purpose of the study. Additionally, I am concerned that any report the EPA issues provide the proper context so that the public can understand how these findings relate to the risks of playing on these fields. Reporting the existence of chemical substances in the product without providing information about how they relate to established health-based guidelines could unduly inflame public concerns and defeat the purposes of the research.

While I applaud the hard work that is being done on this issue, I strongly believe that without controlled sampling and use of health-based guidelines for context and comparison, the research may not provide the answers the public expects. Accordingly, (b) (6)  
(b) (6) be analyzed and/or tested as part of the "Federal Government Study on the Use of Recycled Tire Crumb in Synthetic Turf Fields."

Best regards,

(b) (6)

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**From:** Guiseppi-Elie, Annette [<mailto:Guiseppi-Elie.Annette@epa.gov>]  
**Sent:** Wednesday, September 21, 2016 12:56 PM  
**To:** (b) (6)  
**Subject:** RE: Tire Crumb Research Study Samples

Dear (b) (6)

Thank you for letting me know that you have the request and that you will let me know your response shortly.

Best Regards, Annette.

---

**From:** (b) (6)  
**Sent:** Tuesday, September 20, 2016 11:36 AM  
**To:** Guiseppi-Elie, Annette <[Guiseppi-Elie.Annette@epa.gov](mailto:Guiseppi-Elie.Annette@epa.gov)>  
**Subject:** RE: Tire Crumb Research Study Samples

Dear Ms. Guiseppi-Elie,

This confirms that I received your email. We will consider your request and get back to you shortly.

Best regards,

(b) (6)

---

**From:** Guiseppi-Elie, Annette [<mailto:Guiseppi-Elie.Annette@epa.gov>]  
**Sent:** Tuesday, September 13, 2016 2:28 PM  
**To:** (b) (6)  
**Subject:** Tire Crumb Research Study Samples

Dear (b) (6)

I am following up on our phone conversation to get your signed agreement to analyze recycled tire crumb samples from your facility as part of the "Federal Government Study on the Use of Recycled Tire Crumb in Synthetic Turf Fields".

If you agree, please fill and electronically sign the attached form and return to me at your earliest convenience. Regardless, I would appreciate your confirmation that you got this request. Thank you.

As we discussed, the locations of the samples taken for this study will not be published. However, the results of the analyses will be included in a report about the study. Specifically from the attached form:

"All information about your facility will be secure. We keep track of your information using a code number rather than the facility name. We will keep paper records in locked files and electronic records are stored on password protected computers at the USEPA. Only staff working on the project will be allowed to look at the paper and electronic records. Federal policy requires making the data we collect available to the public, but we will not include your name or other identifying information in public release. However, identifying information may be released in the event of a Freedom of Information Act request."

I have enclosed a Fact Sheet with additional information on the study. However, please feel free to call me if you have any questions.

Best Regards, Annette.



---

Annette Guiseppe-Elie, Ph.D., FAIMBE  
Associate Director for Exposure Science, National Exposure Research Laboratory  
Office of Research and Development, US Environmental Protection Agency  
109 T.W. Alexander Drive, MD305-01, Research Triangle Park, NC 27711  
Telephone: 919.541.4986, Mobile: (b) (6)  
Email: [guiseppe-elie.annette@epa.gov](mailto:guiseppe-elie.annette@epa.gov)

**From:** Oliver, Karen  
**Sent:** Tue, 27 Sep 2016 14:03:41 +0000  
**To:** Thomas, Kent  
**Cc:** Whitaker, Donald; Korajkic, Asja; McMinn, Brian; Guiseppi-Elie, Annette; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB)  
**Subject:** FW: TCRS - Recycling plant sampling kit (b) (6) shipment - exception/late delivery notice  
**Attachments:** (b) (6) tracking update - delivery.pdf  
**Importance:** High

All,

The package was delivered on time after all –

Karen

---

**From:** Oliver, Karen  
**Sent:** Tuesday, September 27, 2016 7:41 AM  
**To:** Thomas, Kent <thomas.kent@epa.gov>  
**Cc:** Whitaker, Donald <Whitaker.Donald@epa.gov>; Korajkic, Asja <Korajkic.Asja@epa.gov>; McMinn, Brian <McMinn.Brian@epa.gov>; Guiseppi-Elie, Annette <Guiseppi-Elie.Annette@epa.gov>; 'jcx0 (jcx0@cdc.gov)' <jcx0@cdc.gov>  
**Subject:** TCRS - Recycling plant sampling kit (b) (6) shipment - exception/late delivery notice  
**Importance:** High

Good morning everyone,

I received a notice from UPS with the following information on the recycling kit shipment to (b) (6) (b) (6)

“A late flight has caused a delay. We're adjusting plans and working to deliver your package as quickly as possible. / Your shipment is scheduled to arrive today after the delivery commitment time.”

I will send any further updates from UPS as soon as I receive them.

Karen

---

Karen D. Oliver  
U.S. Environmental Protection Agency  
Research Triangle Park, NC 27711  
Phone: (919) 541-2337  
Fax: (919) 541-0960  
E-Mail: [oliver.karen@epa.gov](mailto:oliver.karen@epa.gov)

---

**From:** Oliver, Karen

**Sent:** Monday, September 26, 2016 8:21 AM

**To:** Thomas, Kent <[thomas.kent@epa.gov](mailto:thomas.kent@epa.gov)>

**Cc:** Whitaker, Donald <[Whitaker.Donald@epa.gov](mailto:Whitaker.Donald@epa.gov)>; Korajkic, Asja <[Korajkic.Asja@epa.gov](mailto:Korajkic.Asja@epa.gov)>; McMinn, Brian <[McMinn.Brian@epa.gov](mailto:McMinn.Brian@epa.gov)>; Guiseppe-Elie, Annette <[Guiseppe-Elie.Annette@epa.gov](mailto:Guiseppe-Elie.Annette@epa.gov)>; jcx0 <[jcx0@cdc.gov](mailto:jcx0@cdc.gov)> <[jcx0@cdc.gov](mailto:jcx0@cdc.gov)>

**Subject:** RE: TCRS - Recycling plant sampling kit shipments for 9/26

Good morning everyone,

Please find attached the tracking information for the (b) (6) bound kit.

Thanks,

Karen

---

Karen D. Oliver  
U.S. Environmental Protection Agency  
Research Triangle Park, NC 27711  
Phone: (919) 541-2337  
Fax: (919) 541-0960  
E-Mail: [oliver.karen@epa.gov](mailto:oliver.karen@epa.gov)

---

**From:** Thomas, Kent

**Sent:** Friday, September 23, 2016 4:11 PM

**To:** Oliver, Karen <[Oliver.Karen@epa.gov](mailto:Oliver.Karen@epa.gov)>

**Cc:** Whitaker, Donald <[Whitaker.Donald@epa.gov](mailto:Whitaker.Donald@epa.gov)>; Korajkic, Asja <[Korajkic.Asja@epa.gov](mailto:Korajkic.Asja@epa.gov)>; McMinn, Brian <[McMinn.Brian@epa.gov](mailto:McMinn.Brian@epa.gov)>; Guiseppe-Elie, Annette <[Guiseppe-Elie.Annette@epa.gov](mailto:Guiseppe-Elie.Annette@epa.gov)>; jcx0 <[jcx0@cdc.gov](mailto:jcx0@cdc.gov)> <[jcx0@cdc.gov](mailto:jcx0@cdc.gov)>

**Subject:** TCRS - Recycling plant sampling kit shipments for 9/26

Hi Karen:

We will need to ship 3 recycling plant kits on Monday 9/26 for arrival on Tuesday 9/27. I will be doing a final QA check on them this afternoon, and will bring them on a cart to your office or the lab. When you get a chance, please reply to this email with a tracking number for the (b) (6) bound kit so Asja and Brian will have it. As a reminder, each recycling plant kit is one box. So, there will be one box going to (b) (6) and two boxes going to CDC in Georgia.

(b) (6)

(b) (6)

**Recycling Plant Kits #86 and #87:**

Elizabeth Irvin-Barnwell – Mail stop F-57  
770-488-3684  
C/O CDC Warehouse  
3719 North Peachtree Road, Bldg. 100  
Chamblee, GA 30341

Thanks for your help getting these packages shipped. I will coordinate with you early on Thursday when I return in case there are any more shipments needed later next week.

Kent

**Oliver, Karen**

---

**From:** UPS Quantum View <pkginfo@ups.com>  
**Sent:** Tuesday, September 27, 2016 9:58 AM  
**To:** Oliver, Karen  
**Subject:** UPS Delivery Notification, Tracking Number (b) (6)



**Your package has been delivered.**

**Delivery Date:** Tuesday, 09/27/2016  
**Delivery Time:** 09:53 AM

At the request of US EPA -RTP ORD-NEERL-EMMD-IO, , this notice alerts you that the status of the shipment listed below has changed.

## Shipment Detail

**Tracking Number:**

(b) (6)

**Ship To:**

**UPS Service:** UPS NEXT DAY AIR  
**Number of Packages:** 1  
**Weight:** 20.0 LBS  
**Delivery Location:** FRONT DESK  
**Signed by:** TOWER



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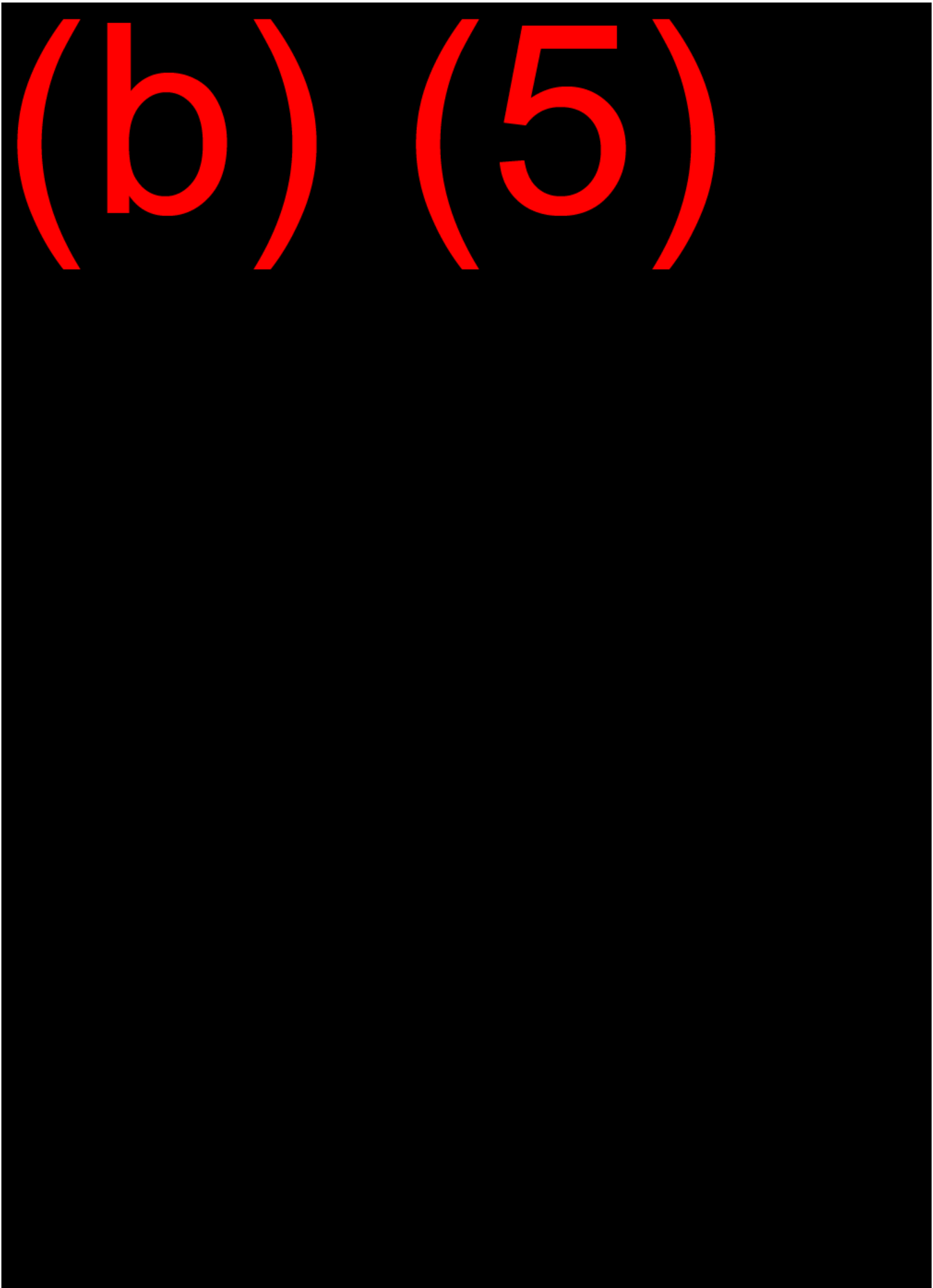




**From:** McQueen, Jacqueline  
**Sent:** Tue, 24 May 2016 13:25:28 +0000  
**To:** Thomas, Kent; Ragin, Angela (ATSDR/DTHHS/EEB); Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB); Eric Hooker  
**Subject:** FW: RMA notes  
**Attachments:** DRAFT 4 7 16 EPA - RMA Crumb Rubber meeting notes.docx

These notes were compiled by OLEM and are taken from a recording of the meeting with the Rubber Manufacturers Association. They may have more information than what I sent previously. Feel free to use these but if you decide to cite anything in them, we will have to go back to RMA and request permission (this was their request). Note also that these are not to be distributed beyond the group working on the action plan.

(b) (5)



(b) (5)

(b) (5)

(b) (5)

**From:** McQueen, Jacqueline  
**Sent:** Thu, 31 Mar 2016 21:47:21 +0000  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB); Ragin, Angela  
(ATSDR/DTHHS/EEB)  
**Subject:** Fw: Questions for RMA  
**Attachments:** RMA questions.docx

Hi Angela and Elizabeth,

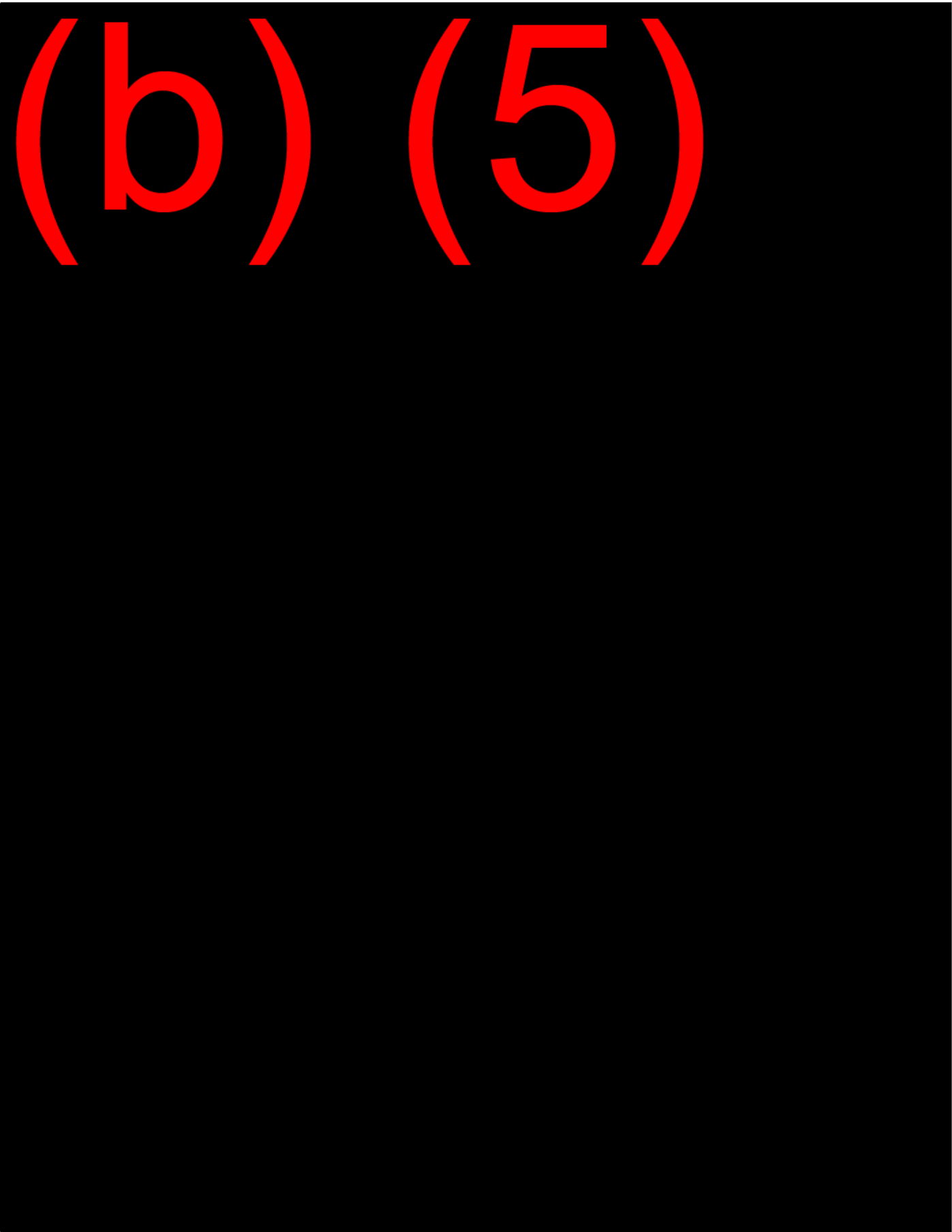
I sent these to Kent to see if he had any input, but should have included you. Next Thursday, we will meet with the Rubber Manufacturers Association. These are the potential list of questions. If you have any thoughts, feel free to let me know.

I know you both will be out next week, so I will make sure to provide meeting materials and a meeting summary to you afterwards.

Jackie



(b) (5)



(b) (5)

DRAFT

**From:** Linnenbrink, Monica  
**Sent:** Thu, 14 Apr 2016 15:07:29 +0000  
**To:** Ragin, Angela (ATSDR/DTHHS/EEB); Davis, Stephanie I. (CDC/ONDIEH/NCEH); Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB); AThaler@cpssc.gov; Eric Hooker  
**Cc:** McQueen, Jacqueline; Hauchman, Fred; Thomas, Kent; Guiseppi-Elie, Annette  
**Subject:** FW: Partnership building related to the rubber crumb research

FYI, see email below from ECHA to FIFA following the call we had with ECHA last week about the tire crumb study.

Begin forwarded message:

**From:** SIHVONEN Kirsi <[Kirsi.SIHVONEN@echa.europa.eu](mailto:Kirsi.SIHVONEN@echa.europa.eu)>  
**Date:** April 8, 2016 at 4:55:11 AM EDT  
**To:** Jiří Dvořák ([jiri.dvorak@f-marc.com](mailto:jiri.dvorak@f-marc.com)) <[jiri.dvorak@f-marc.com](mailto:jiri.dvorak@f-marc.com)>  
**Cc:** "Linnenbrink, Monica ([Linnenbrink.Monica@epa.gov](mailto:Linnenbrink.Monica@epa.gov))" <[Linnenbrink.Monica@epa.gov](mailto:Linnenbrink.Monica@epa.gov)>, VAINIO Matti <[Matti.VAINIO@echa.europa.eu](mailto:Matti.VAINIO@echa.europa.eu)>, HENRICHSON Sanna <[Sanna.HENRICHSON@echa.europa.eu](mailto:Sanna.HENRICHSON@echa.europa.eu)>, BLAINEY Mark <[Mark.BLAINEY@echa.europa.eu](mailto:Mark.BLAINEY@echa.europa.eu)>  
**Subject:** Partnership building related to the rubber crumb research

Dear Jiří Dvořák,  
cc. Monica Linnenbrink, EPA

We had a useful discussion yesterday with US Agencies working on the Federal Action Plan on Recycled Tire Crumb Used in Playing Fields and Playgrounds. In the USA they have set up a very comprehensive research plan, and first results are expected to be ready by the end of this year. We agreed that it would be mutually beneficial to collaborate on this issue and we all welcomed your offer to work with us to investigate the issue in partnership. Our common interest is to understand the situation better, and your proposal for e.g. conducting an epidemiological study would supplement the current research initiatives.

EPA will write a short note of our discussions and we will share it with you, too.

As a first task to start the collaboration would you like to put on paper your idea of the epi study including how you, from your point of view, think ECHA and the US authorities could add value?

Very concretely, we identified two possible dates, 17 May at 15.00 (your time) or 19 May at 15.00 (your time) for a joint conference call to discuss further all our plans. Would either of these work for you? As a reserve we have 18 May at 15.00 your time.

I suggest that we hold a bilateral discussion early next week so that we can exchange views on how to take this initiative further.

With best regards and Bon weekend!

Kirsi Sihvonen

**Kirsi Sihvonen**

Risk Management Implementation Unit

European Chemicals Agency

Annankatu 18, P.O. Box 400, FI-00121 Helsinki, Finland

Tel. +358 9 6861 8482

[kirsi.sihvonen@echa.europa.eu](mailto:kirsi.sihvonen@echa.europa.eu)

<http://echa.europa.eu/>



The above represents the opinion of the author and is not an official position of the European Chemicals Agency.  
This email, including any files attached to it, is intended for the use of the individual to whom it is addressed. If you have received this message in error, please notify the author as soon as possible and delete the message.

**From:** Guiseppi-Elie, Annette  
**Sent:** Tue, 27 Sep 2016 13:41:25 +0000  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB)  
**Cc:** Ragin, Angela (ATSDR/DTHHS/EEB)  
**Subject:** FW: Follow-up Tire Crumb Research Study Samples [WARNING: SPF validation failed]  
**Attachments:** Image (251).jpg, Image (250).jpg

Elizabeth,

Attached are some changes suggested by the (b) (6) for two pages of the form. I understand that the IRB is Ok with these changes.

Thanks. Annette.

---

**From:** (b) (6)  
**Sent:** Tuesday, September 27, 2016 9:34 AM  
**To:** Guiseppi-Elie, Annette <Guiseppi-Elie.Annette@epa.gov>  
**Subject:** RE: Follow-up Tire Crumb Research Study Samples [WARNING: SPF validation failed]

Good-morning,

This morning I asked (b) (6) to change the wording on page 3. I have attached both for your review. He even added a line on page one.

Just let us know.

Thanks,

(b) (6)

---

**From:** Guiseppi-Elie, Annette [<mailto:Guiseppi-Elie.Annette@epa.gov>]

**Sent:** Friday, September 23, 2016 2:36 PM

**To:** (b) (6)

**Subject:** Follow-up Tire Crumb Research Study Samples

Dear (b) (6)

I am following up to get your signed agreement to collect and analyze recycled tire crumb samples from your facilities in (b) (6) as part of the "Federal Government Study on the Use of Recycled Tire Crumb in Synthetic Turf Fields".

If you still agree, please fill and sign the attached form and return to me at your earliest convenience. If you can sign electronically that would be preferred. If not, a scanned copy of the document would work as well.

We will arrange to have someone coordinate on collecting the samples at a mutually agreeable time. Regardless, I would appreciate your confirmation that you got this request. Thank you.

I have enclosed a Fact Sheet with additional information on the study. However, please feel free to call me if you have any questions.

Best Regards, Annette.

---

Annette Guiseppi-Elie, Ph.D., FAIMBE

Associate Director for Exposure Science, National Exposure Research Laboratory

Office of Research and Development, US Environmental Protection Agency

109 T.W. Alexander Drive, MD305-01, Research Triangle Park, NC 27711

Telephone: 919.541.4986, Mobile: (b) (6)

Email: [guiseppi-elie.annette@epa.gov](mailto:guiseppi-elie.annette@epa.gov)



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United States Environmental Protection Agency and the Agency for Toxic Substances and Disease Registry

Collections Related to Synthetic Turf Fields with Crumb Rubber Infill

Sample Collection Agreement

I have read the above information about the project "Collections Related to Synthetic Turf Fields with Crumb Rubber Infill." I have been allowed to ask questions and I had all my questions answered.

By signing below, I agree to allow USEPA and ATSDR to collect crumb rubber samples from my ~~manufacturing~~ <sup>recycling</sup> facility.

\_\_\_\_\_  
Participant's name (Print)

\_\_\_\_\_  
Participant's signature / Date

\_\_\_\_\_  
Organization/Facility Name

\_\_\_\_\_  
Participant Position/Title

By signing below, I give USEPA and ATSDR permission to store my leftover field samples to test for other contaminants at a later date.

\_\_\_\_\_  
Participant's name (Print)

\_\_\_\_\_  
Participant's signature / Date

---

## COLLECTION AGREEMENT

United States Environmental Protection Agency and the Agency for Toxic Substances and Disease Registry

### Collections Related to Synthetic Turf Fields with Crumb Rubber Infill

#### Overview

The Agency for Toxic Substances and Disease Registry (ATSDR) and the United States Environmental Protection Agency (USEPA) invite you to be in a project to measure the amount of chemicals in crumb rubber infill used in synthetic turf fields.

You are being asked to participate in this project. Your participation is voluntary. After you read about the project and before you decide to participate, please ask questions if there is anything that you do not understand.

#### What is the purpose of this project?

The purpose is to see what chemicals are present in newly <sup>recycled</sup> ~~manufactured~~ tire crumb rubber infill used in synthetic turf fields.

We will use the results of this project to better understand the most relevant chemicals, exposures to those chemicals, and toxicity information available for those chemicals found in crumb rubber infill used in synthetic turf fields. *We add no chemicals to tire rubber. We simply recycle tires.*

#### Why are you being asked to be in this project?

You were chosen to participate in this research project because your facility was identified as <sup>recycling</sup> ~~manufacturing~~ tire crumb rubber used as infill in synthetic turf fields and you completed a survey that indicated you willing to participate. ATSDR and EPA hope to get 9 facilities to participate.

#### What are we asking you to do?

- We will ask you to provide permission for us to collect samples of the crumb rubber <sup>recycled</sup> ~~manufactured~~ at your facility. We need samples from three different production batches and/or storage containers from your facility. We will collect about four pounds of crumb rubber from each batch or container. *Other process is continuous so samples can be taken from the flow into bulk bags.*

How long will this take? *or from the filled bags.*

It will take us about 90 minutes for us to collect the samples.

#### What will the field samples be tested for?

We will look for chemicals in the crumb rubber, including

- Metals
- Volatile Organic Compounds
- Semi-Volatile Organic Compounds

United States Environmental Protection Agency and the Agency for Toxic Substances and Disease Registry

Collections Related to Synthetic Turf Fields with Crumb Rubber Infill

Sample Collection Agreement

I have read the above information about the project "Collections Related to Synthetic Turf Fields with Crumb Rubber Infill." I have been allowed to ask questions and I had all my questions answered.

By signing below, I agree to allow USEPA and ATSDR to collect crumb rubber samples from my <sup>recycling</sup> manufacturing facility.

\_\_\_\_\_  
Participant's name (Print)

\_\_\_\_\_  
Participant's signature / Date

\_\_\_\_\_  
Organization/Facility Name Participant Position/Title

By signing below, I give USEPA and ATSDR permission to store my leftover field samples to test for other contaminants at a later date.

\_\_\_\_\_  
Participant's name (Print)

\_\_\_\_\_  
Participant's signature / Date

## COLLECTION AGREEMENT

### United States Environmental Protection Agency and the Agency for Toxic Substances and Disease Registry

#### Collections Related to Synthetic Turf Fields with Crumb Rubber Infill

##### Overview

The Agency for Toxic Substances and Disease Registry (ATSDR) and the United States Environmental Protection Agency (USEPA) invite you to be in a project to measure the amount of chemicals in crumb rubber infill used in synthetic turf fields.

You are being asked to participate in this project. Your participation is voluntary. After you read about the project and before you decide to participate, please ask questions if there is anything that you do not understand.

##### What is the purpose of this project?

The purpose is to see what chemicals are present in newly <sup>recycled</sup> ~~manufactured~~ tire crumb rubber infill used in synthetic turf fields.

We will use the results of this project to better understand the most relevant chemicals, exposures to those chemicals, and toxicity information available for those chemicals found in crumb rubber infill used in synthetic turf fields. *We add no chemicals to tire rubber. We simply recycle tires.*

##### Why are you being asked to be in this project?

You were chosen to participate in this research project because your facility was identified as <sup>recycling</sup> ~~manufacturing~~ tire crumb rubber used as infill in synthetic turf fields and you completed a survey that indicated you willing to participate. ATSDR and EPA hope to get 9 facilities to participate.

##### What are we asking you to do?

- We will ask you to provide permission for us to collect samples of the crumb rubber <sup>recycled</sup> ~~manufactured~~ at your facility. We need samples from three different production batches and/or storage containers from your facility. We will collect about four pounds of crumb rubber from each batch or container. *Our process is continuous so samples can be taken from the flow into bulk bags or from the filled bags.*

##### How long will this take?

It will take us about 90 minutes for us to collect the samples.

##### What will the field samples be tested for?

We will look for chemicals in the crumb rubber, including

- Metals
- Volatile Organic Compounds
- Semi-Volatile Organic Compounds

**From:** Guiseppi-Elie, Annette  
**Sent:** Wed, 28 Sep 2016 11:42:46 +0000  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB); Ragin, Angela (ATSDR/DTHHS/EEB); Thomas, Kent  
**Subject:** FW: Follow-up Tire Crumb Research Study Samples [WARNING: SPF validation failed]  
**Attachments:** Image (244).jpg, Image (243).jpg, Image (242).jpg

Good Morning All,

Attached are the signed forms from (b) (6)

I will provide the contact information to Asja and Brian and confirm a mutually agreeable time for sampling.

Best, Annette.

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**From:** (b) (6)  
**Sent:** Tuesday, September 27, 2016 6:02 PM  
**To:** Guiseppi-Elie, Annette <Guiseppi-Elie.Annette@epa.gov>  
**Subject:** RE: Follow-up Tire Crumb Research Study Samples [WARNING: SPF validation failed]

Hi, Annette

You will find the signed documents attached for your review. Maybe I will call you in the morning to make sure you received them okay. About the time I trust the computer it lets me down☺

Thanks for your work in getting them modified.

(b) (6)



By signing below, I am indicating I would like to receive a copy of the laboratory results from the crumb rubber samples collected from my facility.

(b) (6)

Participant's name (Print)

(b) (6)

(b) (6)

Mailing Address for results

Site ID Number

Collection Date

Field Staff Id

United States Environmental Protection Agency and the Agency for Toxic Substances and Disease Registry

Collections Related to Synthetic Turf Fields with Crumb Rubber Infill

Sample Collection Agreement

I have read the above information about the project "*Collections Related to Synthetic Turf Fields with Crumb Rubber Infill.*" I have been allowed to ask questions and I had all my questions answered.

By signing below, I agree to allow USEPA and ATSDR to collect crumb rubber samples from my recycling facility.

(b) (6)

(b) (6)

(b) (6)

Organization/Facility Name

Participant Position/Title

By signing below, I give USEPA and ATSDR permission to store my leftover field samples to test for other contaminants at a later date.

(b) (6)

Participant's name (Print)

(b) (6)

## COLLECTION AGREEMENT

United States Environmental Protection Agency and the Agency for Toxic Substances and Disease Registry

### Collections Related to Synthetic Turf Fields with Crumb Rubber Infill

#### Overview

The Agency for Toxic Substances and Disease Registry (ATSDR) and the United States Environmental Protection Agency (USEPA) invite you to be in a project to measure the amount of chemicals in crumb rubber infill used in synthetic turf fields.

You are being asked to participate in this project. Your participation is voluntary. After you read about the project and before you decide to participate, please ask questions if there is anything that you do not understand.

#### What is the purpose of this project?

The purpose is to see what chemicals are present in newly recycled tire crumb rubber infill used in synthetic turf fields.

We will use the results of this project to better understand the most relevant chemicals, exposures to those chemicals, and toxicity information available for those chemicals found in crumb rubber infill used in synthetic turf fields. (b) (6) does not add chemicals to the tire rubber. They simply recycle tires.

#### Why are you being asked to be in this project?

You were chosen to participate in this research project because your facility was identified as recycling tire crumb rubber used as infill in synthetic turf fields and you completed a survey that indicated you willing to participate. ATSDR and EPA hope to get 9 facilities to participate.

#### What are we asking you to do?

- We will ask you to provide permission for us to collect samples of the crumb rubber recycled at your facility. We need samples from three different production batches and/or storage containers from your facility. We will collect about four pounds of crumb rubber from each batch or container. (b) (6) process is continuous so samples can be taken from the flow into the bulk bags or from the filled bags.

#### How long will this take?

It will take us about 90 minutes for us to collect the samples.

#### What will the field samples be tested for?

We will look for chemicals in the crumb rubber, including

- Metals
- Volatile Organic Compounds
- Semi-Volatile Organic Compounds

By signing below, I am indicating I would like to receive a copy of the laboratory results from the crumb rubber samples collected from my facility.

(b) (6)

Participant's name (Print)

(b) (6)

(b) (6)

Mailing Address for results

Site ID Number	Collection Date	Field Staff Id
<input type="text"/>	<input type="text"/>	<input type="text"/>

United States Environmental Protection Agency and the Agency for Toxic Substances and Disease Registry

Collections Related to Synthetic Turf Fields with Crumb Rubber Infill

Sample Collection Agreement

I have read the above information about the project "*Collections Related to Synthetic Turf Fields with Crumb Rubber Infill.*" I have been allowed to ask questions and I had all my questions answered.

By signing below, I agree to allow USEPA and ATSDR to collect crumb rubber samples from my recycling facility.

(b) (6)

(b) (6)

(b) (6)

Organization/Facility Name

Participant Position/Title

By signing below, I give USEPA and ATSDR permission to store my leftover field samples to test for other contaminants at a later date.

(b) (6)

Participant's name (Print)

(b) (6)

## COLLECTION AGREEMENT

### United States Environmental Protection Agency and the Agency for Toxic Substances and Disease Registry

#### Collections Related to Synthetic Turf Fields with Crumb Rubber Infill

##### Overview

The Agency for Toxic Substances and Disease Registry (ATSDR) and the United States Environmental Protection Agency (USEPA) invite you to be in a project to measure the amount of chemicals in crumb rubber infill used in synthetic turf fields.

You are being asked to participate in this project. Your participation is voluntary. After you read about the project and before you decide to participate, please ask questions if there is anything that you do not understand.

##### What is the purpose of this project?

The purpose is to see what chemicals are present in newly recycled tire crumb rubber infill used in synthetic turf fields.

We will use the results of this project to better understand the most relevant chemicals, exposures to those chemicals, and toxicity information available for those chemicals found in crumb rubber infill used in synthetic turf fields. (b) (6) does not add chemicals to the tire rubber. They simply recycle tires.

##### Why are you being asked to be in this project?

You were chosen to participate in this research project because your facility was identified as recycling tire crumb rubber used as infill in synthetic turf fields and you completed a survey that indicated you willing to participate. ATSDR and EPA hope to get 9 facilities to participate.

##### What are we asking you to do?

- We will ask you to provide permission for us to collect samples of the crumb rubber recycled at your facility. We need samples from three different production batches and/or storage containers from your facility. We will collect about four pounds of crumb rubber from each batch or container. The (b) (6) process is continuous so samples can be taken from the flow into the bulk bags or from the filled bags.

##### How long will this take?

It will take us about 90 minutes for us to collect the samples.

##### What will the field samples be tested for?

We will look for chemicals in the crumb rubber, including

- Metals
- Volatile Organic Compounds
- Semi-Volatile Organic Compounds

**From:** McQueen, Jacqueline  
**Sent:** Fri, 29 Apr 2016 16:56:07 +0000  
**To:** Ragin, Angela (ATSDR/DTHHS/EEB); Irvin-Barnwell, Elizabeth  
(ATSDR/DTHHS/EEB)  
**Cc:** Thomas, Kent  
**Subject:** Fw: (b) (6) tire crumb tour

Greetings, again.

The (b) (6) tour is now set for May 16. The first part of the tour is in (b) (6). If CPSC decides to send someone, then we can extend the day and go to the (b) (6) plant where rubber playground mulch is made.

I am waiting to hear back from CPSC on the afternoon session, but the morning is a go. I will plan on you both attending, and keep you apprised of the logistics.

Thanks, and have a great weekend.

Jackie McQueen



**From:** McQueen, Jacqueline  
**Sent:** Mon, 26 Sep 2016 13:11:08 +0000  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB); Ragin, Angela (ATSDR/DTHHS/EEB)  
**Subject:** FW: (b) (6) crumb samples

The phone number of (b) (6) He is actually in (b) (6) I left him a voice mail just to make sure that I had the correct phone number, and told him that Elizabeth may give him a call. I also told him that he is welcome to call me as well (but I will pass him over to you all for the specific information).

The main phone number of the company is (b) (6)

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**From:** Guiseppe-Elie, Annette  
**Sent:** Friday, September 23, 2016 2:22 PM  
**To:** McQueen, Jacqueline <McQueen.Jacqueline@epa.gov>; Ragin, Angela (ATSDR/DTHHS/EEB) <atr0@cdc.gov>  
**Cc:** Thomas, Kent <thomas.kent@epa.gov>; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) <jcx0@cdc.gov>  
**Subject:** RE: (b) (6) crumb samples

Jackie/All,

As a follow up to chat with Angela.

- I will call (b) (6) and arrange for EPA to sample this plant.
- Angela will follow up with Jackie and get information for CDC to sample (b) (6) plant.

Thanks, Annette.

---

**From:** McQueen, Jacqueline  
**Sent:** Friday, September 23, 2016 2:13 PM  
**To:** Ragin, Angela (ATSDR/DTHHS/EEB) <atr0@cdc.gov>  
**Cc:** Thomas, Kent <thomas.kent@epa.gov>; Guiseppe-Elie, Annette <Guiseppe-Elie.Annette@epa.gov>; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) <jcx0@cdc.gov>  
**Subject:** Re: (b) (6) crumb samples

Yes, (b) (6)

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**From:** Ragin, Angela (ATSDR/DTHHS/EEB) <atr0@cdc.gov>  
**Sent:** Friday, September 23, 2016 2:02 PM

**To:** McQueen, Jacqueline  
**Cc:** Thomas, Kent; Guiseppi-Elie, Annette; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB)  
**Subject:** RE: (b) (6) crumb samples

Jackie,

Are you free to chat? We already contacted (b) (6)

Angela

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**From:** McQueen, Jacqueline [<mailto:McQueen.Jacqueline@epa.gov>]  
**Sent:** Friday, September 23, 2016 1:42 PM  
**To:** Ragin, Angela (ATSDR/DTHHS/EEB) <[atr0@cdc.gov](mailto:atr0@cdc.gov)>; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB) <[jcx0@cdc.gov](mailto:jcx0@cdc.gov)>  
**Cc:** Thomas, Kent <[thomas.kent@epa.gov](mailto:thomas.kent@epa.gov)>; Guiseppi-Elie, Annette <[Guiseppi-Elie.Annette@epa.gov](mailto:Guiseppi-Elie.Annette@epa.gov)>  
**Subject:** (b) (6) crumb samples

I realize this information is late in coming, but you asked about additional (b) (6) samples. I spoke with Mary Sikora, my contact at the Scrap Tire New, who has been helpful before. It took her a week to get back to me, but here is what she found:

- (b) (6) is willing to have sample takers visit his facility to gather fresh sample of (b) (6) crumb rubber.

(b) (6) He has my name, and he's awaiting a call.

- (b) (6) plans to call me, but I am happy to let one of you follow up if you want. His company uses (b) (6) to produce crumb rubber.

If you decide not to follow up on either, let me know so I can get back to them, thank them anyway, and close the loop. If you want me to do anything else with these 2 contacts, let me know.

- Mary is willing to work with us and her contacts to find facilities to do further sampling/testing if you want. Let me know.

**From:** Guiseppi-Elie, Annette  
**Sent:** Wed, 24 Aug 2016 16:55:28 +0000  
**To:** Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB)  
**Subject:** Emailing - USEPA and Agency for Toxic Substances and Disease Registry Forms.pdf  
**Attachments:** USEPA and Agency for Toxic Substances and Disease Registry Forms.pdf

FYI Elizabeth

I will arrange with (b) (6) to collect the samples from their (b) (6) facility during either the week of 9/12 or 9/19.

Best, Annette.

United States Environmental Protection Agency and the Agency for Toxic Substances and Disease Registry

Collections Related to Synthetic Turf Fields with Crumb Rubber Infill

Sample Collection Agreement

I have read the above information about the project "*Collections Related to Synthetic Turf Fields with Crumb Rubber Infill.*" I have been allowed to ask questions and I had all my questions answered.

By signing below, I agree to allow USEPA and ATSDR to collect crumb rubber samples from my manufacturing facility.

(b) (6)

Participant's name (Print)

(b) (6)

Participant's signature / Date

(b) (6)

Organization/Facility Name

Participant Position/Title

By signing below, I give USEPA and ATSDR permission to store my leftover field samples to test for other contaminants at a later date.

(b) (6)

Participant's name/(Print)

(b) (6)

Participant's signature / Date

By signing below, I am indicating I would like to receive a copy of the laboratory results from the crumb rubber samples collected from my facility.

(b) (6)

Participant's name (Print)

(b) (6)

Participant's signature / Date

(b) (6)

Mailing Address for results

Site ID Number	Collection Date	Field Staff Id
<input type="text"/>	<input type="text"/>	<input type="text"/>

**From:** McQueen, Jacqueline  
**Sent:** Mon, 18 Jul 2016 13:13:18 +0000  
**To:** Thomas, Kent; Irvin-Barnwell, Elizabeth (ATSDR/DTHHS/EEB); Ragin, Angela (ATSDR/DTHHS/EEB)  
**Subject:** (b) (6)  
**Attachments:** (b) (6)

See attached for notes from the (b) (6) tour in (b) (6)

(b) (5), (b) (6)





(b) (5), (b) (6)

